

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Katsumata, et al. ) Group Art Unit Unknown  
App. No. : 09/762,568 )  
Filed : February 6, 2001 )  
For : NOVEL PLASMID VECTOR )  
Examiner : Unknown )

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

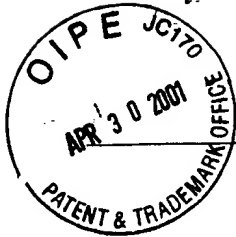
Enclosed is form PTO-1449 listing references that are also enclosed. This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410. A duplicate copy of this Statement is enclosed for that purpose.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 4/26/01

By: C. Philip Poirier  
C. Philip Poirier  
Registration No. 43,006  
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PCT/PTO

30 APR 2001  
PATENTCase Docket No. HIKARI.001APC  
Date: April 26, 2001

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I hereby certify that this correspondence and all  
marked attachments are being deposited with the  
United States Postal Service as first class mail in  
an envelope addressed to: Assistant Commissioner  
for Patents, Washington, D.C. 20231, on

April 26, 2001

(Date)

*C. Philip Poirier*  
C. Philip Poirier, Reg. No. 43,006

## TRANSMITTAL LETTER

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231  
ATTENTION: APPLICATION BRANCH

Dear Sir:

Enclosed for filing in the above-identified application are the following:

- (X) An Information Disclosure Statement;
- (X) A PTO Form 1449 with Twenty (20) references;

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit  
any overpayment, to Account No. 11-1410; and

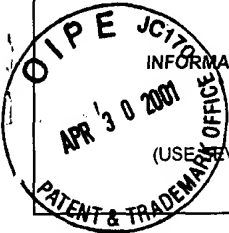
- (X) A return prepaid postcard.

*C. Philip Poirier*  
C. Philip Poirier  
Registration No. 43,006  
Attorney of Record

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Attach #3

SHEET 1 OF 1

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HIKAR1.001APC	APPLICATION NO. 09/762,568
 <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)</p>		APPLICANT Katsumata, et al.	
		FILING DATE February 6, 2001	GROUP Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	Yeong Ho Hong et al., "Improved transfection efficiency of chicken gonadal primordial germ cells for the production of transgenic poultry"; Transgenic Research Vol. 7, pp. 247-252 (1998)
	Lorraine Vick, et al., "Transgenic birds from transformed primordial germ cells", Proc. R. Soc. Lond. B. Biol. Sci., Vol. 251, pp. 179-182 (1993)
	Patrick O. Brown, et al., "Retroviral integration: Structure of the initial covalent product and its precursor, and a role for the viral IN protein", Proc. Natl. Acad. Sci. USA Vol. 86, pp. 2525-2529 (April 1989)
	Antonito T. Panganiban, et al., "Circles with Two Tandem LTRs Are Precursors to Integrated Retrovirus DNA", Cell, Vol 36, pp. 673-679 (March 1984)
	Antonito T. Panganiban, et al., "The terminal nucleotides of retrovirus DNA are required for integration but not virus production", Nature, Vol. 306, pp. 155-160, (November 1983)
	G. Duyk, et al., "Circles with Two Tandem Long Terminal Repeats Are Specifically Cleaved by <i>pol</i> Gene-Associated Endonuclease from Avian Sarcoma and Leukosis Viruses: Nucleotide Sequences Required for Site-Specific Cleavage", Journal of Virology, Vol. 56, No. 2, pp 589-599 (1985)
	Akiko Shoji-Tanaka, et al., "Gene Transfer Using Purified Retroviral Integrase", Biochemical and Biophysical Research Communications, Vol. 203, No. 3, pp. 1756-1764 (1994)
	Makoto Mochii, "Transgenic Birds", Tanpakushitsu Kakusan Kouso (Proteins, Nucleic Acids, and Enzymes), Vol. 40, No. 14, pp. 277-285 (1995)
	Padmini Kedar, et al., "Nucleotide Sequence of the Integrase (IN) Gene of an Endogenous Murine Leukemia Retroviral DNA", Nucleic Acids Research, Vol. 18, No. 13, page 4022 (1990)
	Paul J. Hippenmeyer, et al., "Requirement of the Avian Retrovirus pp32 DNA Binding Protein Domain for Replication", Virology, Vol. 137, pp. 358-370 (1984)
	Dennis E. Schwartz, et al., "Nucleotide Sequence of Rous Sarcoma Virus", Cell, Vol. 32, pp. 853-869, (March 1983)
	Stephen H. Hughes, et al., "A Rous Sarcoma Virus Provirus is Flanked by Short Direct Repeats of a Cellular DNA Sequence Present in Only One Copy Prior to Integration", Proc. Natl. Acad. Sci. USA, Vol. 78, No. 7, pp. 4299-4303 (July 1981)
	Richard A. Katz, et al., "The Avian Retroviral IN Protein Is Both Necessary and Sufficient for Integrative Recombination In Vitro", Cell, Vol. 63, pp. 87-95, (October 1990)
	Michael Katzman, et al., "In Vitro Activities of Purified Visna Virus Integrase", Journal of Virology, Vol. 68, No. 6, pp. 3558-3569, (June 1994)
	GenBank: accession No. AF110968, x94150 (Dec. 12, 1995)
	GenBank: accession No. AF110968, Y07725 (Oct. 8, 1996)
	Surend T. Nath, et al., "Function of Two Discrete Regions Is Required for Nuclear Localization of Polymerase Basic Protein 1 of A/WSN/33 Influenza Virus (H1 N1)", Molecular and Cellular Biology, Vol. 10, No. 8, pp. 4139-4145 (August 1990)
	Daniel Kalderon, et al., "A Short Amino Acid Sequence Able to Specify Nuclear Location", Cell, Vol. 39, pp. 499-509 (December 1984)
	Shyoso Ogawa, et al., "Gene Expression in Blastocysts Following Direct Injection of DNA into Testis", Journal of Reproduction and Development, Vol. 41, pp. 379-382 (1995)
	Shinji Mizuarai, et al., "Integrase-Mediated Nonviral Gene Transfection with Enhanced Integration Efficiency", Journal of Bioscience and Bioengineering, Vol. 88, No. 5, pp. 461-467 (1999)

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042501

EXAMINER	DATE CONSIDERED
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>	